



Scientific Control Systems, Incorporated

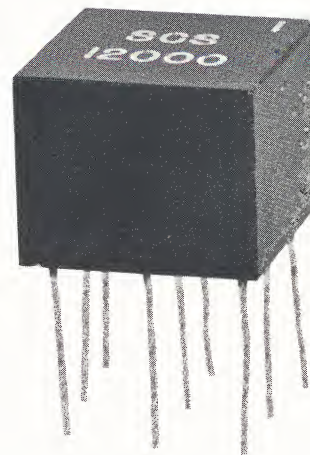
14008 Distribution Way • Dallas, Texas 75234 • 214 — 241-2111

Solid State Switch SCS Model 101

This series of 2-pole Solid State Analog Switches is intended for wide application in high level time division multiplexers, commutators and choppers where maximum performance, size, and cost are primary considerations.

Environmental Limits

Operating Temp	-55 to +100°C
Storage Temp	-100 to +150°C
Vibration	100 G's, 20-2000 cps
Shock	100 G's, 3 msec
Altitude	300,000 ft.
Humidity	100%



Electrical Characteristics

@ 25°C (unless otherwise specified)

Parameter (Each Pole)	Test Condition	101-01	101-02	101-03	Units
Offset V_O	$E_s = 0; I_s = 0; V_D = 6 \text{ Volts}$ $T_A = -20^\circ \text{ to } +80^\circ \text{C}$	± 50	± 250	± 1000	$\mu\text{Volts Max}$
Reverse Current I_r	$E_s = 0; E_o = +10\text{V}$	1	1	1	$\eta\text{Amp Max}$
On Duration T_{on}	$V_D = 6 \text{ Volts}$	1500	1500	1500	$\mu\text{Sec Min}$
Switching Speed $t_{on} + t_{off}$	$t_r + t_f < 2 \mu\text{sec}$	5	5	5	$\mu\text{Sec typ.}$
On Resistance R_{on}	$I_s = 1 \mu\text{amp}$	100	100	100	Ohms typ.
Permissible Duty Cycle		80	80	80	% on Time
Breakdown Voltage* V_{12}, V_{13}, V_{23}	$I_s = 10 \mu\text{amp}$	15	15	15	Volts Min

*Higher Breakdown Units Are Available



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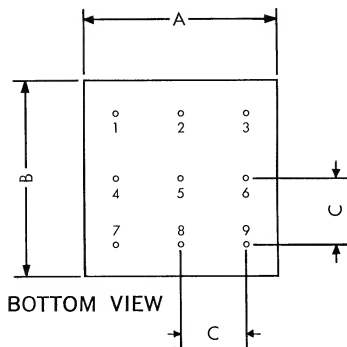
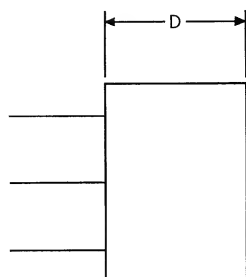
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Solid State Switch SCS Model 101

MECHANICAL CHARACTERISTICS

Dimensions

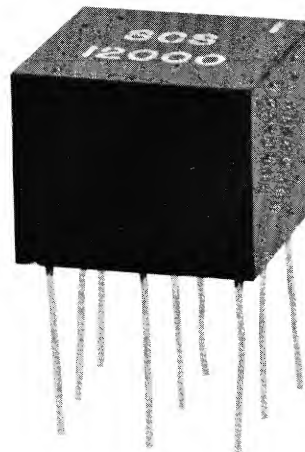
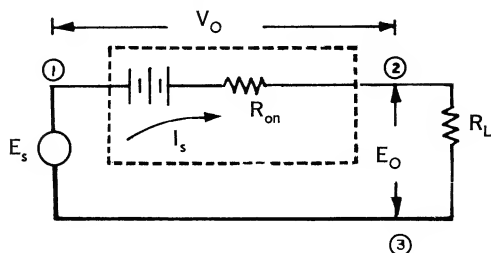
A = 0.632
B = 0.632
C = 0.250
D = 0.500



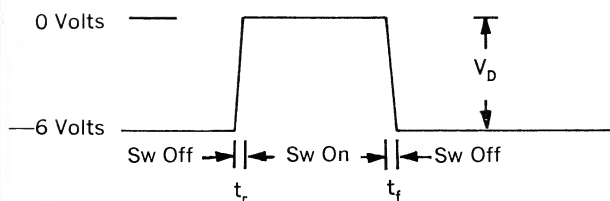
Pin Connections

- 1 Sig In #1
- 2 Drive (+)
- 3 Sig Out #1
- 4 Not Used
- 5 Not Used
- 6 Not Used
- 7 Sig In #2
- 8 Drive (-)
- 9 Sig Out #2

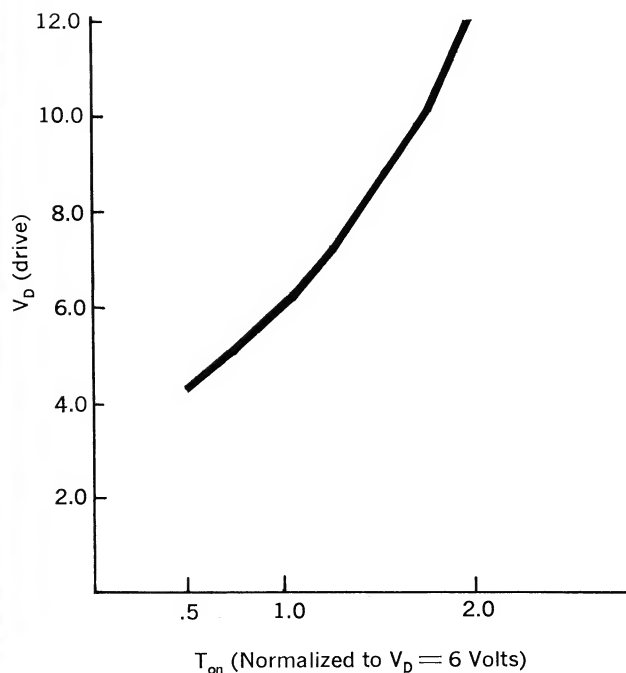
Equivalent Circuit of ON Switch



Typical Switch Drive



$$t_r \text{ \& } t_f < 1 \mu\text{sec}$$



MOXON ELECTRONICS CORP.
P. O. BOX 202

CHERRY HILL, NEW JERSEY
(609) 446-7174

MOXON ELECTRONICS CORP.
36 CENTRAL AVE
MIDLAND PARK, NEW JERSEY
(201) 652-6750

VARIABLE VOLTAGE TRANSDUCER POWER SUPPLY Model 3566



SPECIAL
limited-time offer

\$79



ALL-SILICON ■■■ .01% NL/FL REGULATION ■■■ ISOLATED

0-200 ma OUTPUT ■■■ 4-25 VDC OUTPUT ■■■ SELF-CONTAINED

SRC Model 3566 is an all-silicon, isolated transducer power supply designed as a self-contained unit for multiple-purpose use.

It is completely sealed in a case mounted on rubber feet and utilizes a 3-wire AC power cord as an input connector.

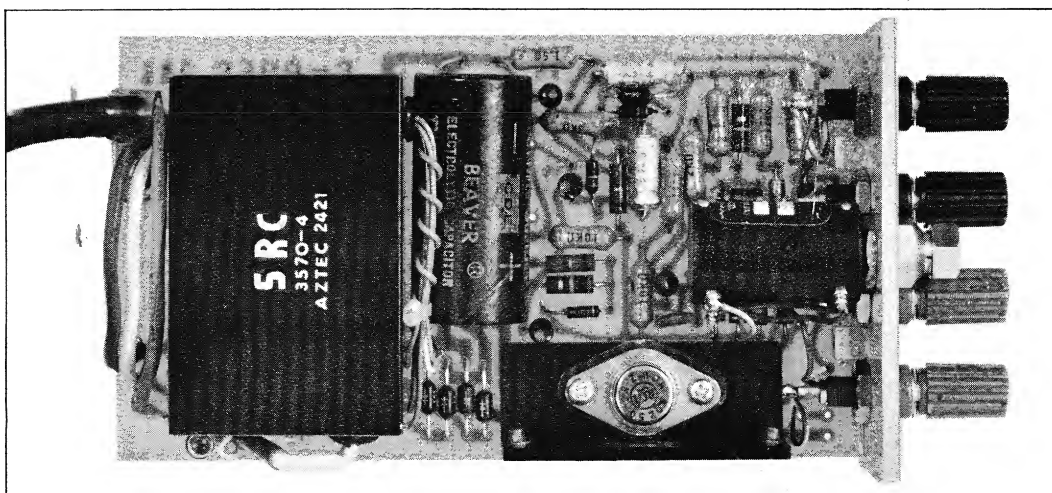
Front panel features voltage control and binding posts for both excitation and sensing (local or remote).

Full portability as a self-contained unit gives the SRC Model 3566 a versatility of use not pos-

sible with any other standard unit. It is the most flexible, lowest cost, high-specification power supply offered by the industry. Ideal for R&D, engineering labs, transducer development, etc.

Load protection is provided through circuitry design which maintains voltage regulation even if sensing leads are disconnected from voltage leads.

A high reliability unit, the extensive new circuit design of the Model 3566 features all-silicon components to provide a sophisticated, low-cost power supply with broad temperature specifications.



SPECIFICATIONS — MODEL 3566

Input Voltage	105-125 VAC, 60 cps
Output Voltage	4 to 25 VDC, continuously variable
Output Current	0-200 ma
Output Regulation	Less than 0.02% NL/FL and line voltage change of $\pm 10\%$
Output Ripple & Noise	Less than 500 microvolts peak-to-peak
Resolution	± 5 mv.
Recovery Time	Less than 100 micro-seconds NL/FL
Short Circuit Protection	Current limiting to less than 300 ma.
Output Impedance	Less than .02 ohms at DC.
AC Isolation	Less than 0.1 pico-farad
DC Isolation	10,000 megohms
Temp. Stability	.005%/°F.
Temp Range	35°F to 130°F
Time Stability	Less than .01% change per 8 hours
Controls	Front panel screw driver adjust for multi-turn pot
Excitation	Front panel binding posts
Sensing	Front panel binding posts for local and remote sensing
Weight	1 $\frac{3}{4}$ lbs.
Size	1 $\frac{3}{4}$ " high, 3 $\frac{1}{2}$ " wide, 6 $\frac{1}{4}$ " deep